## Specifications for WS501 Weather Station: Brand name or Equal Acceptable in accordance with the following specifications:

## **Temperature**

Measuring range -58...140°F (-50...60°C)

Accuracy  $\pm 0.2^{\circ}\text{C}$  (-4...122°F/-20°C...+50°C), otherwise  $\pm 0.5^{\circ}\text{C}$  (>-22°F/-30°C)

Relative humidity

Principle capacitive

Measuring range 0...100% RH

Accuracy ±2% RH

## Radiation

Response Time (95%) 18s

Non-stability (change/year) ±1%

Non-linearity (0 to 1,000 W/m2)  $\pm 2.5\%$ 

Directional error (at  $80^{\circ}$  with 1,000W/m2)  $\pm 20\text{W/m2}$ 

Temperature dependence of sensitivity  $\pm 5\%$  (-10 to  $+40^{\circ}$ C)

Tilt error (at 1,000W/m2)  $\pm 3\%$ 

Spectral range (50% points) 300 to 2,800nm

Typical signal output for atmospheric applications 0 to 20mV

Operating temperature -40 to +80°C

Maximum irradiance 1,500W1m2

## Air Pressure

Principle MEMS capacitive

Measuring range 300...1200 hPa

Accuracy ±0.5hPa

Wind direction

Principle Ultrasonic- 2.4 Ghz